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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/749,291	12/27/2000	Gary Nachreiner	687-396	6326	
	7590 04/04/2007 CH CORPORATION		EXAMINER		
10700 BREN R MINNETONK		· · · - ·		ALEXANDRA	
MINITETOTIO	1, 1/11/ 55545		ART UNIT PAPER NUMBER		
			1725		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MOI	NTHS	04/04/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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		Application No.	Applicant(s)				
		09/749,291	NACHREINER ET AL.				
	Office Action Summary	Examiner	Art Unit				
		M. Alexandra Elve	1725				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet	with the correspondence address	,			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of the may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. It is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may will apply and will expire SIX (6) M , cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communicati ABANDONED (35 U.S.C. § 133).	•			
Status							
1)🖂	Responsive to communication(s) filed on 12 Ja	anuary 2007.					
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.				
Dispositi	on of Claims						
4)🛛	Claim(s) <u>1-8,16-19,31-36 and 47-54</u> is/are pen	ding in the application.					
	4a) Of the above claim(s) is/are withdraw						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-8,16-19,31-36 and 47-54</u> is/are reje	cted.					
	Claim(s) is/are objected to.						
8)[_]	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers						
9) 🔲 .	The specification is objected to by the Examine	r. '					
10)🛛	The drawing(s) filed on <u>27 December 2000</u> is/a	re: a) ☐ accepted or b)	☑ objected to by the Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correcti	ion is required if the drawir	ng(s) is objected to. See 37 CFR 1.121	(d).			
11) 🔲 .	The oath or declaration is objected to by the Ex	aminer. Note the attach	ed Office Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in	Application No				
	3. Copies of the certified copies of the prior		n received in this National Stage				
	application from the International Bureau	` ''					
* S	see the attached detailed Office action for a list of	of the certified copies no	ot received.				
Attachment	Ne)		·				
	e of References Cited (PTO-892)	4) Intension	v Summary (PTO-413)				
2) D Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	o(s)/Mail Date				
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Motice o 6) Other: _	f Informal Patent Application				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8, 16-19, 31-36 & 47-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bartlett (WO 01/05331 A1) in view of Svercl et al. (UK 1,449,541).

Bartlett discloses braided stents having counter-rotating filaments, the ends of which are joined. The stent has first and second sets of mutually counter rotating filaments which are braided together and define a tubular stent body having two ends which are mechanically biased towards a first radially expanded configuration in which it is unconstrained by externally applied forces and can be retained in a second radially compressed configuration, and in which some or all of the filaments at the ends of the body are fixed together in pairs each consisting of counter rotating filaments by placing the filament ends over one another and placing them adjacent to and substantially parallel to one another and further comprising a join at each end fixing to retain the ends of the filaments in contact with one another.

The fixed ends may be shaped or heat-treated to urge the respective filaments to a position in which they are biased out of parallel alignment with the adjacent filament to which they are connected at the region of the join.

Although welding can be by resistance welding and/or by pressure, it is preferred for heat to be used, generally by spot, laser, or plasma welding. Preferably the welding softens the metal such that it forms a globule before resolidifying to form a bead.

It is preferred that each filament of the stent should execute at least one full turn of the helix. If the filaments execute less than a full turn, even with the joining of the ends of the filaments, the stent may be relatively unstable. Preferably each filament executes at least six turns, though generally less than twelve turns.

Filaments are braided together around a mandrel to produce a tubular structure.

The filaments are wound to satisfy the braid angle requirements, and the number of filaments selected dependent upon the overall diameter of the stent that is required, as well as the particular application in which the stent is to be used.

Although Bartlett discloses the use of a mandrel, the exact structure and configuration of the mandrel is not taught.

Svercl et al. discloses a mandrel, which is used in the manufacture of tubular products. The mandrel is supported in a chuck and the tubular product to be welded is slipped over the cylindrical mandrel and clamped. The mandrel is arranged for axial movement with respect to the jaws. The mandrel has a first and second pin extending substantially radially outwards from the mandrel body. The pins are spaced apart longitudinally from the mandrel, whereby one of the pins, nearest the free end of the mandrel, is retractable into the mandrel body against biasing means.

It would have been obvious to one of ordinary skill in the art at the time of the invention to use a mandrel with axial movement and pins, as taught by Svercl et al. in

the Bartlett system because this ensures a secure fixation, and accurate weld bead and proper alignment.

Response to Arguments

Applicant's arguments filed 1/12/07 have been fully considered but they are not persuasive.

Applicant argues that Bartlett does not teach not teach the rotation in two directions. The examiner respectfully disagrees because Bartlett discloses braided stents having counter-rotating filaments, the ends of which are joined.

Applicant argues that Bartlett does not teach cutting. The examiner respectfully notes that cutting is defined in instant claims to involve welding of the filaments, which is essentially the same as Bartlett's joining of the ends.

Applicant argues that Svercl et al. does not teach braided stents. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See In re Keller, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); In re Merck & Co., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

April 1, 2007.

M. Alexandra Elve

Primary Examiner 1725